

## ABSTRACT OF THE DISCLOSURE

A method and apparatus are provided for implementing an enhanced reduced memory mode (RMM) of decoding HDTV MPEG-2 video stream. In one instance, the RMM mode is adaptively enabled with up/down conversion by using the picture-type information. In another instance, the RMM mode is provided by performing anchor-frame compression/decompression by using adaptive DPCM technique with picture-type information. The quantization (PCM) tables are generated using the Lloyd algorithm. Further, the predictor for each pixel is determined by a use of the Graham rule.

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